

Fig. 1

3. Order, LP, 700 Hz, Butterworth

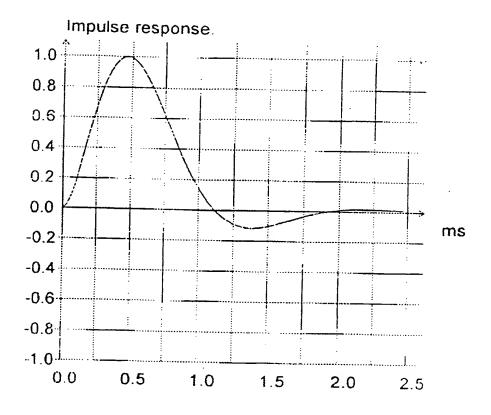


Fig. 2

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3. Order, LP, 700 Hz, Butterworth

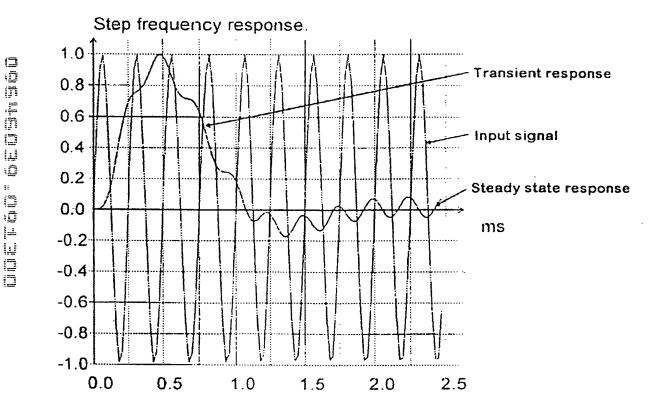


Fig. 3

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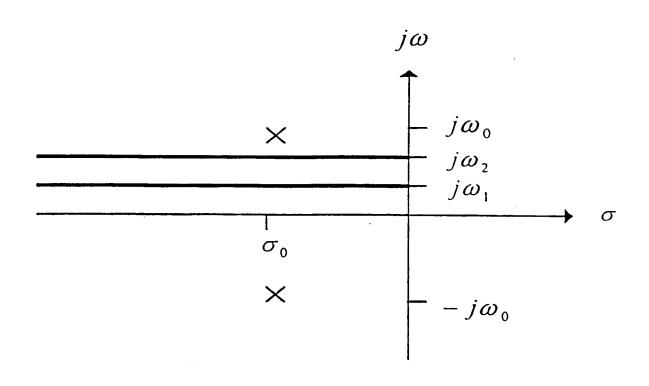


Fig. 4

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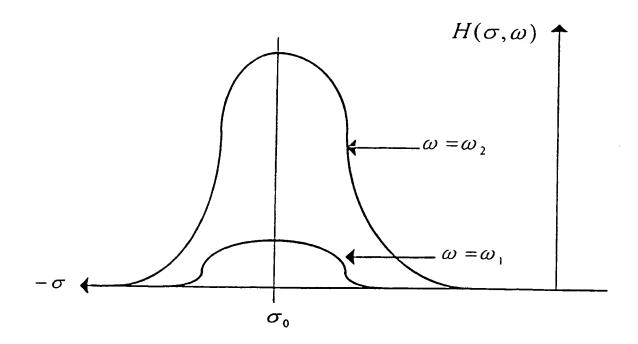
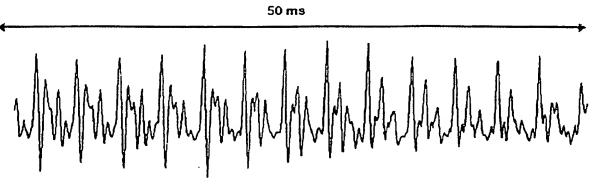
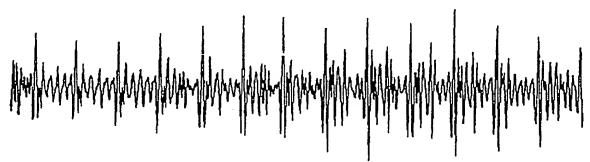


Fig. 5



Speech signal



Transient isolation in the speech signal, band width 2150-3550 Hz



Energy detection of the transient pulses by means of envelop detection,

rectified and low pass filtered at 700 Hz

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Sigma	Max	
9250 8500 7750 7000 6250 5500 4750 4000 3250 2500	0.931 0.81633 0.964 0.81633 0.989 0.81633 1.000 0.81633 0.993 0.81633 0.960 0.81633 0.895 0.81633 0.855 0.90703 0.757 0.90703 0.610 0.99773	2.00 ms

Fig. 7

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Sigma	Max	
9250	0.980 0.72562	
8500	0.989 0.72 5 62	
7750	0.983 0.72562	
7000	0.986 0.81633	
6250	1.000 0.81633	
5500	0.983 0.81633	
4750	0.923 0.81633	
4000	0.837 0.90703	
3250	0.745 0.90703	
2500	0.590 0.99773	
		0 2.00 ms

Fig. 8

Sigma	Max
9250	0.883 0.81633
8500	0.908 0.81633
7750	0.931 0.81633
700 0	0.953 0.81633
6250	0.974 0.81633
550 0	0.992 0.81633
4750	1.000 0.81633
4000	0.984 0.81633
3250	0.940 0.90703
250 0	0.851 0.90703
y 1 °	

Fig. 9

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Sigma	Max	
9250 9500 7750 7000 6250 5500 4750 4000 3250 2500	Max 0.890	2.00

Fig. 10

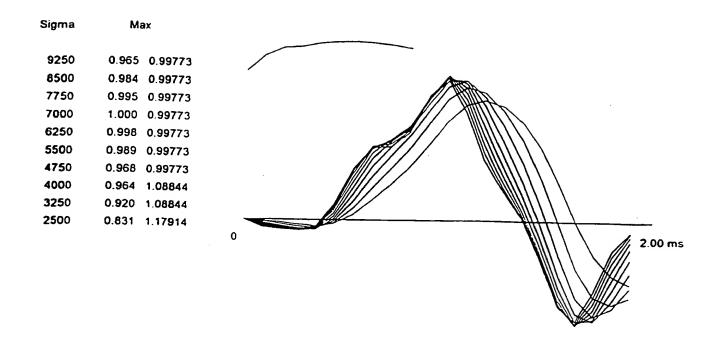


Fig. 11

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Sigma	Max	
9250 8500 7750 7000 6250 5500 4750 4000 3250 2500	0.983	2.00 ms

Fig. 12

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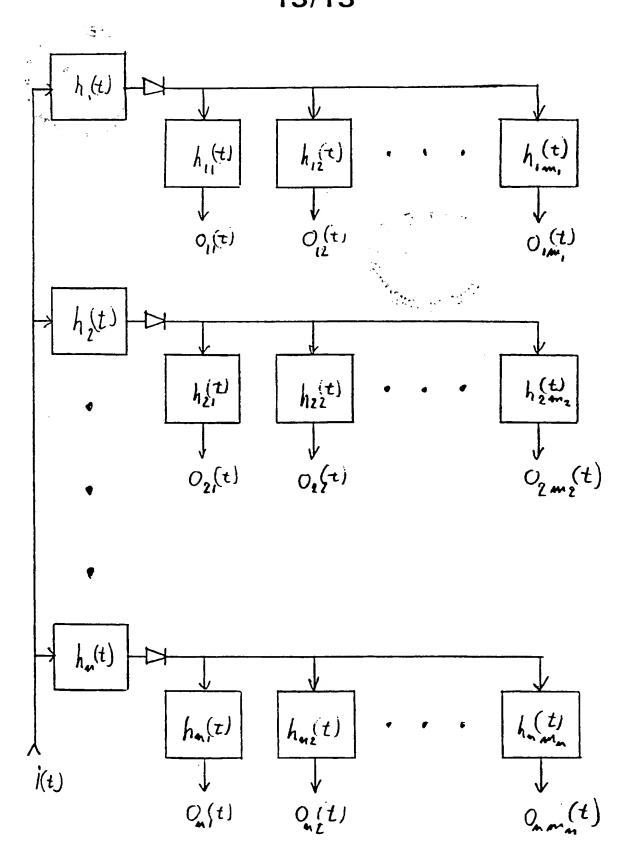


Fig. 13

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